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EXAMINER

NGUYEN, MINH CHAU

ART UNIT PAPER NUMBER

2145

DATE MAILED: 10/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/081,560

Applicant(s)

ELY ET AL.

Examiner

MINH-CHAU N. NGUYEN

Art Unit

2145

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claim 15 is rejected under 35 U.S.C. 101 because it directs to a propagated carrier signal per se. Therefore, it is non-statutory as not being tangibly embodied in a manner so as to be executable.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 4-7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter "the media interface of each of the plurality of agent communication devices configurable via the corresponding control interface to couple with a selected one of the plurality of media handlers", and "an available one of the plurality of agent communication devices for coupling with the corresponding one of the plurality of media handlers handling the corresponding customer contact" which were not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention, without undue experimentation.

3. In claims 4-7, it is unclear as to what is the functionality of the plurality of agent communication devices? and what is difference between the functionality of the agents and the functionality of media handlers for handling the customer contact?

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 4-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
5. In claims 4-7, the phrases “the media interface of each of the plurality of agent communication devices configurable via the corresponding control interface to couple with a selected one of the plurality of media handlers”, and “an available one of the plurality of agent communication devices for coupling with the corresponding one of the plurality of media handlers handling the corresponding customer contact” are unclear and vague. The examiner has interpreted that “the media interface of each of the plurality of agent communication devices configurable via the corresponding control interface to couple with a selected one of the plurality of media handlers”, and “an available one of the plurality of agent communication devices for coupling with the corresponding one of the plurality of media handlers handling the corresponding customer contact” to mean each of the plurality of agent communication devices is a resource, and each media

handler would select an available resource and connect the customer contact/call to the selected resource.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-4,6,8-13,15-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Bogart et al. (Bogart) (US 6,978,247 B1).
7. Claim 1, Bogart teaches a business contact center (i.e. multimedia customer contact center 100) for interfacing customers with a business, and the business contact center comprising:
 - a plurality of media handlers (i.e. handlers 200-212 in figure 2) each including a control interface (i.e. interface 110) and each of the plurality of media handlers configurable via the control interface to define a plurality of media services (i.e. “each handler is adapted to handle a specific one or more media (i.e. services). Managing the contacts includes connecting the contacts to resources for servicing”) including at least one of routing media between selected media endpoints (i.e. “handlers 200-212 provide switching... They establish

connections between contacts and resources”), recording media from a selectable media source, and playing selectable media to a selected media endpoint (abstract; and Col. 1, L. 54-Col. 2, L. 67; and Col. 5, L. 30-Col. 6, L. 67); and

a conference controller (i.e. communication layer 106 in multimedia customer contact center 100 in figure 1) coupled with each of the plurality of media handlers (i.e. handlers 200-212 of a contact layer 104 in figure 2) via the corresponding control interface (i.e. interface 110), and the conference controller responsive to a customer contact to configure via the corresponding control interface an available one of the plurality of media handlers to define selected ones of the media services (i.e. a service call), media sources (i.e. resources/agents) and media endpoints (i.e. customer contact such as phone, computer, etc.) for handling the customer contact (Col. 1, L. 54-Col. 2, L. 67; and Col. 4, L. 22-54; and Col. 5, L. 30-Col. 6, L. 50; and Col. 9, L. 22-Col. 10, L. 21).

8. Claim 2, Bogart teaches the conference controller (i.e. communication layer 106 in multimedia customer contact center 100 in figure 1) a further comprises: a bandwidth manager (i.e. “the communications layer comprises software for managing communications each comprising one or more contacts in one or more media”, thus a bandwidth manager is a software) to manage media handler selection for each customer contact in a manner which effects a balancing of

relative loads on each of the plurality of media handlers (i.e. handlers 200-212 of a contact layer 104 in figure 2) (Col. 1, L. 54-Col. 2, L. 36; and Col. 9, L. 22-59).

9. Claim 3, Bogart teaches the conference controller (i.e. communication layer 106) further comprises: an event handler (i.e. contact layer 104) for determining a next media event for a customer contact based on a correlation between pre-defined call contact states and status and actual call status (abstract; and Col. 1, L. 54-Col. 2, L. 36; and Col. 9, L. 22-Col. 10, L. 21; and Col. 12, L. 4-Col. 13, L. 46).
10. Claim 4, Bogart teaches the business contact center, further comprising: a plurality of agent communication devices (i.e. resources/agents 220) each having a control interface coupled to the control interface (i.e. interface 111) of the conference controller (i.e. communication layer 106) and a media interface, and the media interface of each of the plurality of agent communication devices configurable via the corresponding control interface to couple with a selected one of the plurality of media handlers (i.e. handlers 200-212) (Col. 1, L. 54-Col. 2, L. 67; and Col. 4, L. 37-43; and Col. 5, L. 30-Col. 6, L. 50; and Col. 9, L. 22-59).
11. Claim 6, Bogart teaches each of the plurality of agent communication devices further comprises: an agent interface for accepting input from an agent of requests (i.e. resources/agents 220) and for passing the requests to the conference controller (i.e. communication layer 106) via the control interface to

manage a customer contact session (abstract; and Col. 1, L. 54-Col. 2, L. 36; and Col. 9, L. 22-59).

12. Claim 8, Bogart teaches a method for interfacing customers with a business, and the method comprising:

selecting at a conference controller (i.e. contact layer 104) an available one of a plurality of media handlers (i.e. handlers 200-212 in figure 2) for handling a call with the calling one of the customers (figure 2; and Col. 1, L. 54-Col. 2, L. 67; and Col. 4, L. 22-54; and Col. 5, L. 30-Col. 6, L. 50; and Col. 9, L. 22-Col. 10, L. 21);

passing call parameters (i.e. contact preferences) (Col. 5, L. 4-15) for handling the call with the calling one of the customers from the conference controller (i.e. contact layer 104) to the available one of the media handlers (Col. 1, L. 54-Col. 2, L. 67; and Col. 4, L. 22-54; and Col. 5, L. 30-Col. 6, L. 50; and Col. 9, L. 22-Col. 10, L. 21); and

configuring the available one of the plurality of media handlers (i.e. determining an available one of a plurality of resources which is allocated for use to a particular handler. In other word, once the resource is available, it implies the handler is available) for selected ones of a plurality of media services (i.e. a service call), media sources (i.e. resources/agents) and media endpoints (i.e. customer contact such as phone, computer, etc.) for handling the customer contact, responsive to the passing of the call parameters in the passing act (Col.

1, L. 54-Col. 2, L. 67; and Col. 4, L. 22-54; and Col. 5, L. 4-Col. 6, L. 50; and Col. 9, L. 22-Col. 10, L. 21).

13. Claim 9, Bogart teaches the method for interfacing customers, further comprising in response to the configuring act, at least one of the following acts performed on the available one of the plurality of media handlers of

routing media between selected media endpoints (i.e. "handlers 200-212 provide switching...They establish connections between contacts and resources") (Col. 1, L. 54-Col. 2, L. 67; and Col. 4, L. 22-54; and Col. 5, L. 30-Col. 6, L. 50; and Col. 9, L. 22-59);

recording media from a selectable media source (Col. 1, L. 54-Col. 2, L. 67; and Col. 4, L. 22-54; and Col. 5, L. 30-Col. 6, L. 50; and Col. 9, L. 22-59); and

playing selectable media to a selected media endpoint (Col. 1, L. 54-Col. 2, L. 67; and Col. 4, L. 22-54; and Col. 5, L. 30-Col. 6, L. 50; and Col. 9, L. 22-59).

14. Claim 10, Bogart teaches the call setup parameters passed in the passing act include at least outbound media ports (Col. 9, L. 22-42; and Col. 13, L. 65-Col. 14, L. 43) and a media service type (Table F, Col. 15, L. 56-67).

15. Claim 11, Bogart teaches the selecting act further comprises the act of:
managing media handler selection for successive calling ones of the customers

to effect a balancing of relative loads among the plurality of media handlers (i.e. handlers 200-212 in figure 2) (Col. 1, L. 54-Col. 2, L. 36; and Col. 9, L. 22-59).

16. Claim 12, Bogart teaches the passing act further comprises the act of:

determining a next media event for the calling one of the customers based on a correlation between pre-defined call contact states and status and actual call status for the calling one of the customers (abstract; and Col. 1, L. 54-Col. 2, L. 36; and Col. 9, L. 22-Col. 10, L. 21; and Col. 12, L. 4-Col. 13, L. 46); and

with the configuring act responsive to each determination in the determining act to reconfigure the available one of the plurality of media handlers (Col. 1, L. 54-Col. 2, L. 36; and Col. 9, L. 22-Col. 10, L. 21; and Col. 12, L. 4-Col. 13, L. 46).

17. Claim 13, Bogart teaches the method for interfacing customers further

comprising the act of: managing the available one of the plurality of media handlers (i.e. handlers 200-212) to define additional selected ones of a plurality of media services (i.e. a service call), media sources (i.e. resources/agents) and media endpoints (i.e. customer contacts such as phone, computer, etc.) for handling the customer contact from an agent communication device (i.e. agent 220 in figure 2) configured as a media endpoint in the configuring act (i.e. handlers 200-212) (Col. 1, L. 54-Col. 2, L. 36; and Col. 4, L. 37-43; and Col. 5, L. 30-Col. 6, L. 50; and Col. 9, L. 22-Col. 10, L. 21).

18. Claims 15-19 are corresponding claims of claims 8-9,11-13. Therefore, they are rejected under the same rationale.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

19. Claims 5,7,14,20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bogart et al. (Bogart) (US 6,978,247 B1) as applied to claims 1,8,15 above, and further in view of Sonesh et al. (Sonesh) (6,046,762).

20. Claim 5, Bogart teaches the communication layer 106 manages the plurality of agent communication devices (i.e. resources) and it responsive to a request for customer contact with an available agent to select an available agent at an available one of the plurality of agent communication devices for coupling with the corresponding one of the plurality of media handlers handling the corresponding customer contact (Col. 1, L. 54-Col. 2, L. 36; and Col. 4, L. 37-43; and Col. 5, L. 30-Col. 6, L. 50; and Col. 9, L. 22-Col. 10, L. 21).

Bogart fails to teach an agent manager coupled to each of the plurality of agent communication devices via the corresponding control interface, and the agent manager responsive to a request for customer contact with selection of an

available agent. However, Sonesh, in the same field of endeavor having closely related objectivity, teaches an agent manager coupled to each of the plurality of agent communication devices via the corresponding control interface, and the agent manager responsive to a request for customer contact with selection of an available agent (Col. 3, L. 50-58; and Col. 5, L. 60-Col. 6, L. 8).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated Sonesh's teachings of an agent manager coupled to each of the plurality of agent communication devices via the corresponding control interface, and the agent manager responsive to a request for customer contact with selection of an available agent, in the teachings of Bogart in multimedia customer care center having a layered control architecture, for the purpose of providing intelligent routing of messages/calls to agents for processing.

21. Claim 7, Bogart teaches wherein the plurality of media handlers each further comprise: a call sequencer interacting with selected ones of the plurality of media services defined by each media handler to maintain consecutive sequence numbers in the real time packets output from the media handler from various media sources during a customer contact session (Col. 1, L. 54-Col. 2, L. 36; and Col. 9, L. 22-Col. 10, L. 21; and Col. 15, L. 28-47).

Bogart fails to teach real time protocol (RTT). However, Sonesh, in the same field of endeavor having closely related objectivity, teaches real time protocol (RTP) (Col. 5, L. 15-31).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated Sonesh's teachings of real time protocol (RTP), in the teachings of Bogart in multimedia customer care center having a layered control architecture, for the purpose of providing intelligent routing of messages/calls to agents for processing.

22. Claim 14 is corresponding claim of claim 7. Therefore, it is rejected under the same rationale.

23. Claim 20 is corresponding claim of claim 14. Therefore, it is rejected under the same rationale.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MINH-CHAU N. NGUYEN whose telephone number is (571)272-4242. The examiner can normally be reached on Monday-Friday from 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JASON D. CARDONE can be reached on (571) 272-6159. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Examiner: Minh-Chau Nguyen

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JASON CARDONE
SUPERVISORY PATENT EXAMINER